

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
12 August 2004 (12.08.2004)

PCT

(10) International Publication Number  
**WO 2004/066944 A3**

(51) International Patent Classification<sup>7</sup>: **B05D 1/36**

(21) International Application Number:  
PCT/US2004/000224

(22) International Filing Date: 7 January 2004 (07.01.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/438,294 7 January 2003 (07.01.2003) US  
60/438,779 9 January 2003 (09.01.2003) US

(71) Applicant and

(72) Inventor: SLIMAK, Karen, M. [US/US]; P.O. Box 2444,  
Springfield, VA 22153 (US).

(74) Agent: PAVELKO, Thomas; Stevens, Davis, Miller &  
Mosher, LLD, 1615 L Street, NW, Suite 850, Washington,  
DC 20036 (US).

(81) Designated States (*unless otherwise indicated, for every  
kind of national protection available*): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(84) Designated States (*unless otherwise indicated, for every  
kind of regional protection available*): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),  
Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), Euro-  
pean (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR,  
GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK,  
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,  
ML, MR, NE, SN, TD, TG).

Published:

— with international search report

(88) Date of publication of the international search report:  
11 November 2004

*For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.*

(54) Title: PRODUCTS FOR TREATING AND PREVENTING CHRONIC DISEASES: ELIMINATING THE AUTOIMMUNE TRIGGERS THAT UNDERLY CHRONIC DISEASE

(57) Abstract: Long term exposure to volatile organic components (VOCs) has been linked to chronic diseases, conditions and symptoms such as diseases of the blood vessels, heart and/or lung: psychiatric disorders, diseases of the nervous system and genetic diseases, among others. Methods and products are disclosed to treat chronically ill patients as well as healthy patients to reduce or eliminate exposure to VOCs.

WO 2004/066944 A3

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/00224

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : B05D 1/36

US CL : 427/402

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 427/2.1, 230, 402, 419.1, 419.2, 419.3, 419.4, 419.6

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
EAST

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y --- A	US 5,354,540 A (NEUMILLER) 11 October 1994 (11.10.1994), column 1, lines 19-35.	12-15 ----- 1-31
Y --- A	US 5,626,820 A (KINKEAD et al) 06 May 1997 (06.05.1997), column 1, lines 20-24.	12-15 ----- 1-31
Y,P --- A	US 2004/0020176 A1 (KONG) 05 February 2004 (05.04.2004), paragraph 0006.	12-15 ----- 1-31
Y --- A	US 3,638,404 A (MOLL et al) 01 February 1972 (01.02.1972), column 1, lines 5-12).	14 ----- 1-31



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:		"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A"	document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E"	earlier application or patent published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O"	document referring to an oral disclosure, use, exhibition or other means		
"P"	document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

10 August 2004 (10.08.2004)

Date of mailing of the international search report

25 AUG 2004

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Facsimile No. (703) 305-3230

Authorized officer

Shrive P. Beck

Telephone No. (703) 308-0661